



MIDWEST CLEAN DIESEL INITIATIVE



**Tools and Incentives for Green Diesel Technology:
Lower Emissions, Higher Profits
September 6 & 7, 2006**

Diesel emissions contribute to:

- Ozone (NO_x)
- Particulate Matter/Haze
- Air Toxics






Diesel exhaust poses significant public health concerns

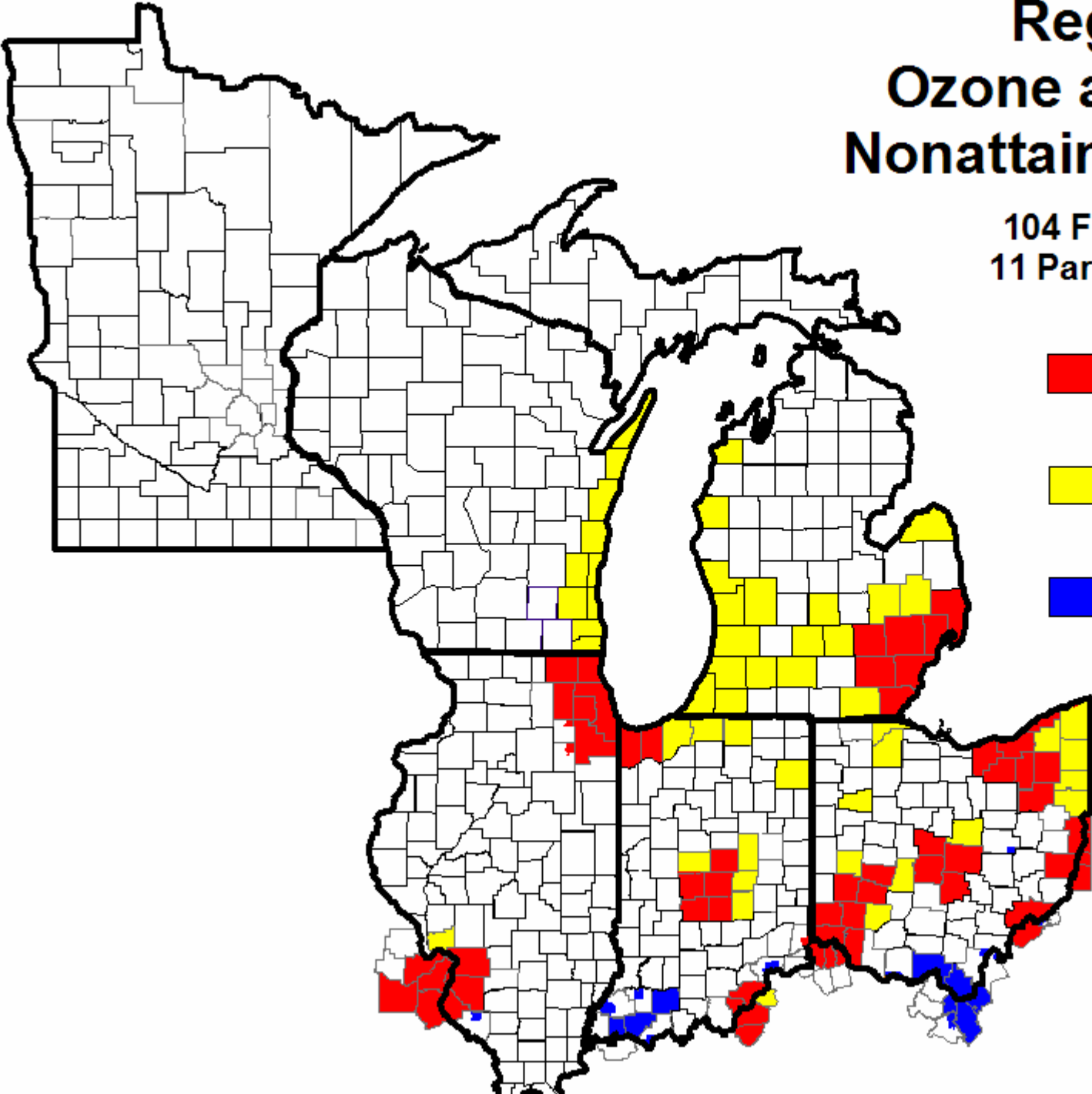
- exacerbates asthma, causes respiratory and cardiovascular illness and premature death
- Likely human carcinogen at occupational and environmental exposure levels

Region 5

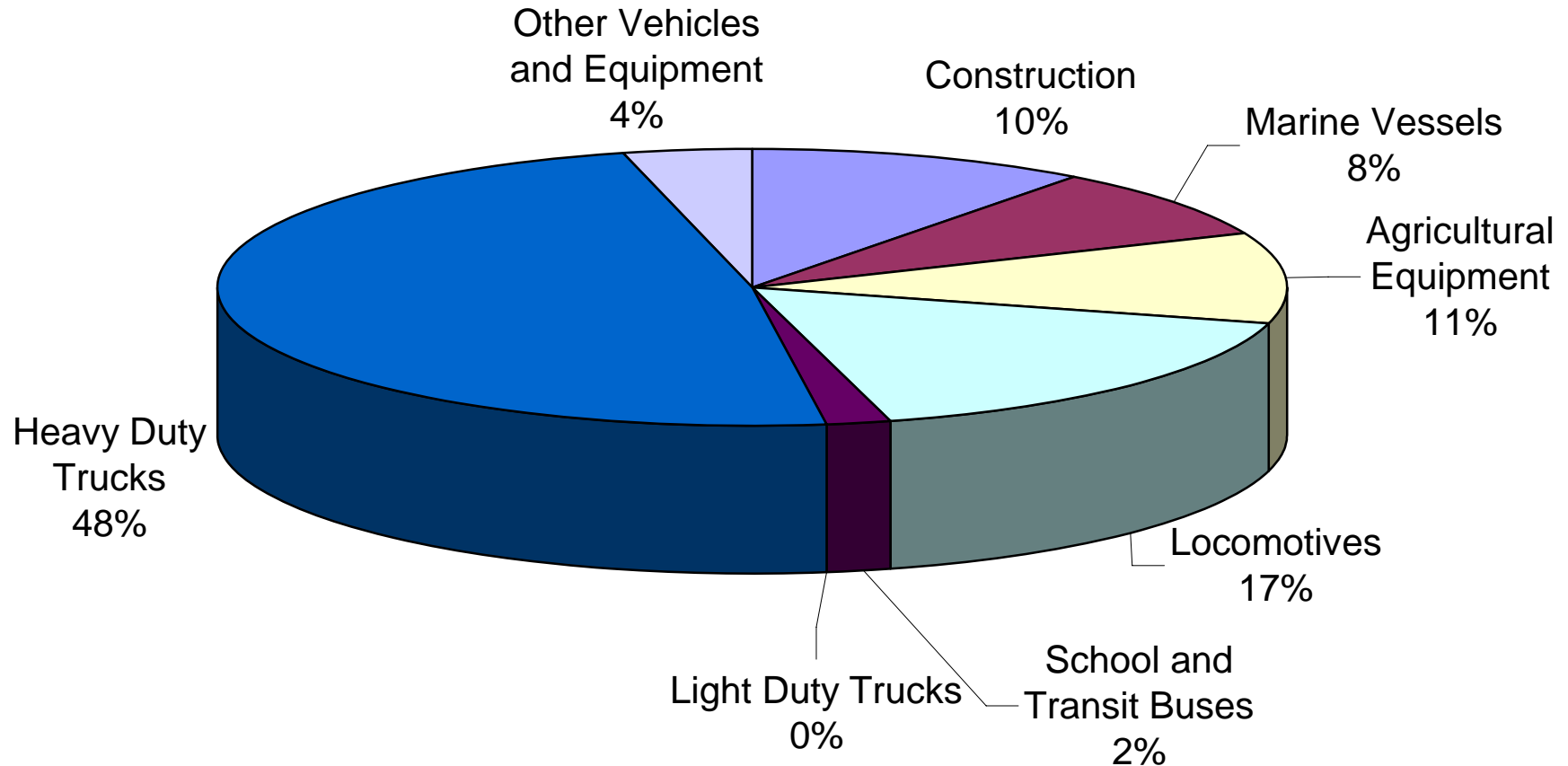
Ozone and PM 2.5 Nonattainment Areas

104 Full Counties
11 Partial Counties

-  **Ozone and PM 2.5
Nonattainment**
(52 Counties)
-  **Ozone
Nonattainment**
(52 Counties)
-  **PM 2.5
Nonattainment**
(11 Counties)

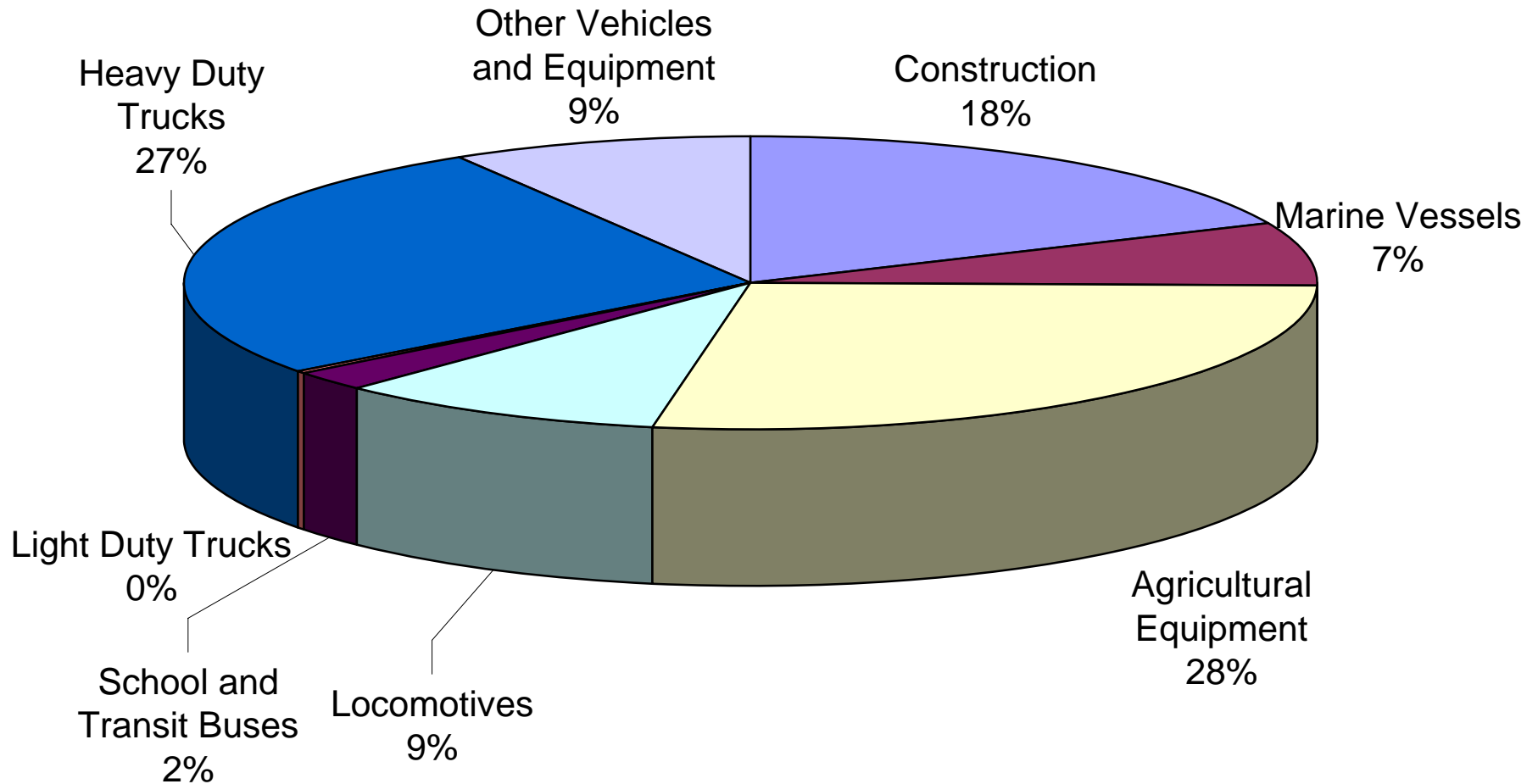


Region 5 Diesel Engine NOx Emissions



Source: 2002 National Emissions Inventory

Region 5 Diesel Engine PM_{2.5} Emissions



Source: 2002 National Emissions Inventory



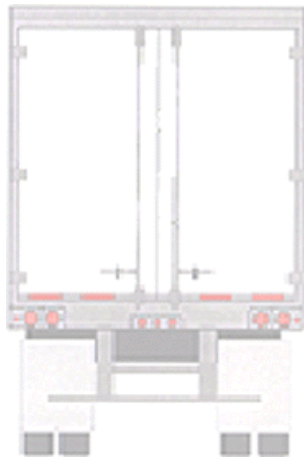
- Public-private partnership to accelerate diesel emission reductions in the Midwest
- Midwest Clean Diesel Initiative is part of the voluntary National Clean Diesel Campaign
 - Clean School Bus USA
 - Clean Construction USA
 - Clean Agriculture USA
 - Clean Ports USA
 - SmartWay Transport Partnership

What is the SmartWay Transport Partnership?

- Voluntary partnership with the ground freight industry
- Potential partners include shippers, carriers, logistics, and rail companies
- Excellent opportunity to reduce fuel consumption thereby reducing expenses and emissions
- 125 SmartWay Partners in Region 5

2003

35 Billion Gallons



2012

45 Billion Gallons



The logo for the Midwest Clean Diesel Initiative features a blue wavy line that curves over the text. The words "MIDWEST CLEAN DIESEL" are in a bold, dark blue, sans-serif font. Below this, the word "INITIATIVE" is written in a green, sans-serif font, with each letter separated by a small gap.

MIDWEST CLEAN DIESEL INITIATIVE

- Targeting the 3.3 million diesel engines in Region 5's legacy fleet
- Region 5 and partners have implemented over \$32 million in projects
- Goal: Impact one million engines by 2010
- Progress: 350,000 engines
- Pollutants reduced by over 1,800 tons per year



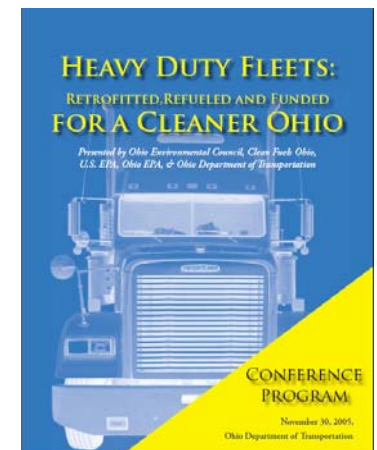
- Ports Sector
 - 7 of 10 major Great Lakes ports in non-attainment areas
- Agriculture-Grain Transport Sector
 - Cereal grains and ag products constitute a majority (21%) of ton-miles shipped in Region 5
- Rail Sector
 - 1/3 of nation's rail traffic passes through Chicago daily
- Southeast Michigan/Canada Border Area
 - Busiest corridor for trade between Canada and the United States
- School buses, municipal vehicles, construction equipment



- Initiative Tools
 - Building partnerships
 - Leadership Group
 - Credit for diesel projects in state implementation plans
 - Fund demonstration projects through grants
 - Education and outreach

Midwest Clean Diesel Initiative Accomplishments

- Awarded \$2.2 million to regional school districts
- \$6.7 million in Federal Supplemental Environmental Projects
- \$1 million in regional diesel funding to be announced soon
- Educational forums, media events, website



MIDWEST CLEAN DIESEL INITIATIVE

The Power of Partnerships

www.epa.gov/midwestcleandiesel



Illinois Environmental
Protection Agency



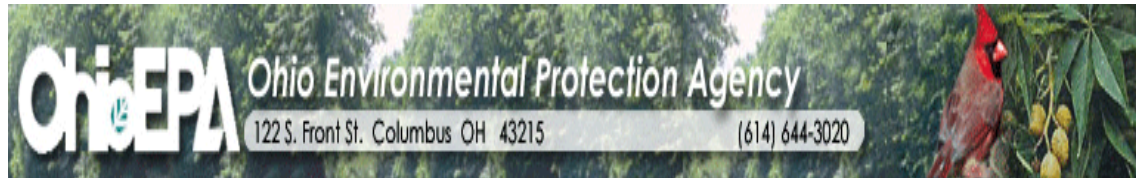
Indiana Department of
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